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STEREOCOMPARATOR  
FINAL SITE INSTALLATION  
REPORT FOR THE MONTH OF JULY, 1971

During July, the installation work by [ ] at the final job site reached the point where no significant work could continue until the environmental airconditioning system could be brought up to specification. There are a total of five systems that require conditioned air:

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1. The general room.
2. The stage jets.
3. The electronic cabinets.
4. The optical system.
5. The film cooling.

None of these systems were operational at the beginning of July.

During the month the walls and ceiling of the clean room were closed in by the room contractor, and various elements of the airconditioning system were operated.

During this airconditioning startup period, problems were encountered which delayed the conditioned air systems performing to their specified levels. This, in turn, prevented [ ] from completing the final adjustment for some of the Stereocomparator subsystems.

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While the airconditioning systems were being adjusted, there were periods of high humidity which apparently have caused some external and internal corrosion to the Stereocomparator. The possible extent of the internal damage to the Stereocomparator has not yet been assessed, since some of the potentially affected systems can only be operated after the airconditioning equipment is up to specification. At this time it is known, however, that there are problems with the electronic logic packages.

The effects of the corrosion that are apparent on the exterior surfaces of the Stereocomparator stage and laser measuring equipment are not necessarily related to degrading the performance of the equipment. The concern is that there may be internal corrosion to the optical systems or interferometers. This can only be determined during operational tests.

By July 30 the airconditioning systems had stabilized to the point that:

1. The general room was operating over a range of 70° to 72° F, at about 60% relative humidity.
2. The stage jets were varying between 66° and 73° F (between left and right sides).
3. The electronic cabinets were varying from 74° to 80° F, with relative humidity reaching 70%.
4. No information is available on the optical system at this time.
5. No information is available on the film cooling at this time.

The maintenance portion of the diagnostic computer program is being used successfully to locate problems in the electronic logic.

Although the installation work for the Stereocomparator during July was hampered by a variety of problems of which some examples have been given above, it is anticipated that August will be a much more productive period since the airconditioning problems appear now to be coming under control.

[Redacted Signature]

Chief Engineer

August 6, 1971

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